



5 dBi Rubber Duck Antenna 900-930 MHz SMA Connector

Antennas Technical Data Sheet

PE51RD1012

Features

- 900 MHz Omnidirectional
- SMA Male Connector
- Flexible Rubber Duck Antenna
- Tilt and Swivel Design

Applications

- 900 MHz Digital Spread Spectrum Radios
- 900 MHz ISM Band
- 900 MHz Telemetry Products
- Cellular Band Applications

Description

The Pasternack PE51RD1012 high performance 900 MHz omnidirectional “rubber-duck” antenna provides broad coverage and 5 dBi gain. It is a coaxial sleeve design with an omni-directional pattern. It is ideally suited for 900 MHz ISM band applications as well as cellular, and LPWAN applications.

Measuring 14.9” long, the PE51RD1012 from Pasternack antenna features a tilt-and-swivel SMA Male connector, allowing them to be used vertically, at a right angle, or any angle in-between.

This rubber duck antenna, as well as our wide selection of superior quality RF devices, ship same day. Contact our knowledgeable and friendly technical support and sales staff for your answers on antennas or other Pasternack products.

Configuration

Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	SMA Male
Number of Ports	1
Lightning Protection	DC Ground

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	900		930	MHz
Input VSWR			2.5:1	
Impedance		50		Ohms
Gain		5		dBi
Horizontal (Azimuth) Beam Width		360		Degrees
Vertical (Elevation) Beam Width		30		Degrees
Input Power			50	Watts

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: [5 dBi Rubber Duck Antenna 900-930 MHz SMA Connector PE51RD1012](#)

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Mechanical Specifications

Size

Overall Length	15 in [381 mm]
Width	0.5 in [12.7 mm]
Height	0.5 in [12.7 mm]
Weight	0.13 lbs [58.97 g]

Environmental Specifications

Temperature

Operating Range	-40 to +55 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

5 dBi Rubber Duck Antenna 900-930 MHz SMA Connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [5 dBi Rubber Duck Antenna 900-930 MHz SMA Connector PE51RD1012](#)

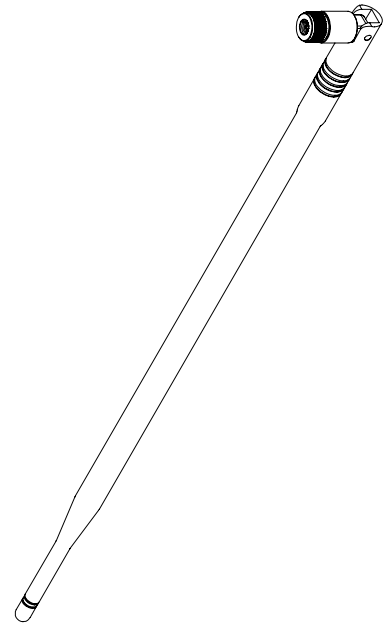
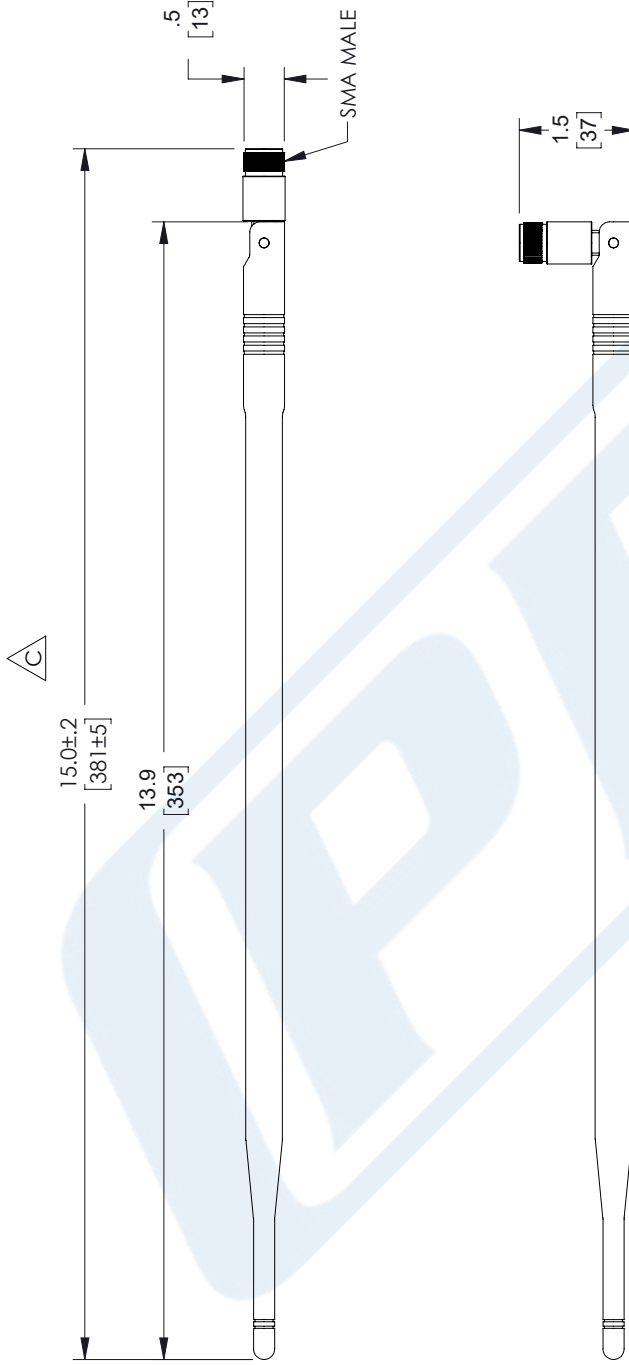
URL: <https://www.pasternack.com/single-antenna-900-930-mhz-5-dbi-gain-sma-pe51rd1012-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE51RD1012 CAD Drawing

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
C	UPDATE DIMENSION	3/15/2022	KHIETPAS



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

.X = ± .2	[5.08]	FRACTIONS	
.XX = ± .02	[.51]		± 1/32
.XXX = ± .005	[.13]	ANGLES ± 1°	

CABLE LENGTH (L) TOLERANCES:

L ≤ 12	[305]	= +1 [25] / -0
12 [305] < L ≤ 60	[1524]	= +2 [51] / -0
60 [1524] < L ≤ 120	[3048]	= +4 [102] / -0
120 [3048] < L ≤ 300	[7620]	= +6 [152] / -0
300 [7620] < L ≤ ∞		= +5% / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

PE PASTERNAK
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SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	KDANG	PE51RD1012

THIRD-ANGLE PROJECTION

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SHEET	1	OF	1
SCALE	N/A		

REV	C
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